

Chelsea® 489 Series

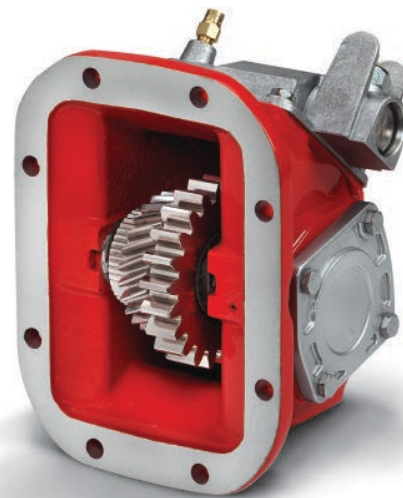
Two Gear PTO for Mechanical Transmissions



Overview:

The Chelsea 489 PTO is the best in the business. It's specifically designed to reduce mounting time. The one-piece, cast iron PTO housing bolts on to the 8-Bolt transmission opening, but gives the same torque capacity as the 442 Series. That means one less part to buy, one less surface to leak, and faster installation. The 489 has strong tapered input bearings instead of needle bearings for greater load capacity. Available with twenty-five output options, including Chelsea's popular 360° rotatable flange. Eleven internal speed ratios and thirteen shift options make this one versatile PTO. Take advantage of over 70 years of Chelsea PTO technology to increase performance and lower costs.

- Aerial
- Fire and Rescue
- Snow & Ice Removal
- Refuse
- Dump Truck & Trailer
- Service



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Product Features and Benefits:

- **Flange** – 442 Series family, with an 8-Bolt mounting flange.
- **Adapter Plate** – Not required.
- **Confidence** – Two Year Warranty.
- **Ease of Installation** – Reduced installation time with less leak points.
- **Outputs** – Twenty-five output options, including greaseable and rotatable options.
- **Shift Options** – Thirteen shift options.
- **Speeds** – Eleven speed ratios.



ENGINEERING YOUR SUCCESS.

489 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

489 X Q A H X - A 3 X K

Basic Model
489

Mounting Option
X = Standard Mount
G = Standard Mount w/ Metric Stud Kit
K = Standard Mount w/o Stud Kit
Q = Eaton Endurant™
Z = Deep Mount
D = Detrpot DT12™ w/ Req Adapter

Gear Ratio
A = 14/39 **R** = 22/24
C = 17/37 **S** = 24/22
F = 21/37 **U** = 26/20
H = 23/35 **W** = 26/17
L = 25/34 **X** = 38/21
Q = 19/24

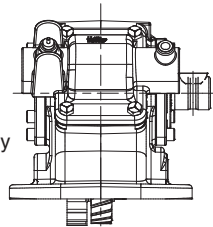
Input Option
 Eaton, Mack, Tremac, Allison, Rockwell, Daimler Transmissions
NOTE: For more details, see Application Catalog (Transmission Model Number required)

Lube Option
X = No Pressure Lube
P = Pressure Lube

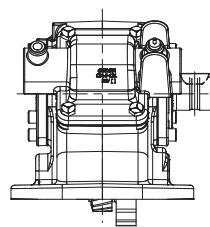
Shift Option
¹**A** = Air Shift
V = Air Shift w/o Installation Kit
¹**P** = 12V Elec/Air Shift
Q = 24V Elec/Air Shift
D = Eaton Endurant™ 12V Elec/Air Shift
²¹**S** = Air Shift w/ PTO/Dump Pump Combo Valve w/ Kick Out w/ Neutral Spring Return
²¹**T** = Air Shift w/ PTO/Dump Pump Combo Valve w/o Kick Out w/ Neutral Spring Return
²¹**U** = Air Shift w/ PTO/Dump Pump Combo Valve w/ Kick Out w/o Neutral Spring Return
¹**W** = Wire Shift
X = Wire Shift w/o Cable & Knob
M = Constant Mesh
H = No Shifter Assembly
C = Special Shift Control & Bracket Kit

Output Option
Driveline Output
XD = Rd Standard Shaft (1-1/4" - 5/16" Key)
XX = 1-1/4" Tapered Output Shaft w/ Keyway
Pump Mount
AK = SAE B 2-Bolt Flange, SAE B Shaft (7/8" - 13T)
SQ = SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
AZ = SAE B 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)
XE = SAE A 2 or 4-Bolt Flange, SAE A Shaft (5/8" - 9T)
XK = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
⁵⁹**XQ** = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
AF = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
GA = Greaseable SAE B 2-Bolt Rotatable Flange, SAE B Shaft (7/8" - 13T)
GB = Greaseable SAE B 4-Bolt Rotatable Flange, SAE B Shaft (7/8" - 13T)
GK = Greaseable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
⁵⁹**GQ** = Greaseable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
GF = Greaseable SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
GR = Greaseable Chelsea Special (Cloverleaf), SAE B Shaft (7/8" - 13T)
RC = Rotatable SAE A 2-Bolt Flange, SAE A Shaft (5/8" - 9T)
RD = Rotatable SAE A 2-Bolt Flange, SAE B Shaft (7/8" - 13T)
RA = Rotatable SAE B 2-Bolt Flange, SAE B Shaft (7/8" - 13T)
RF = Rotatable SAE B 2-Bolt Flange, SAE BB Shaft (1" - 15T)
RB = Rotatable SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
RE = Rotatable SAE B 4-Bolt Flange, SAE BB Shaft (1" - 15T)
RK = Rotatable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
RJ = Rotatable SAE 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
RY = Rotatable ISO 7653 Pump Mount DIN 5462 Shaft
XR = Chelsea Special (Cloverleaf), SAE B Shaft (7/8" - 13T)
XY = ISO 7653 Pump Mount DIN 5462 Shaft

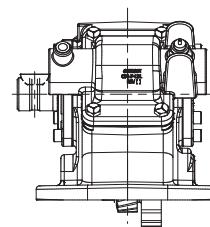
Assembly Arrangement
 3, 4, 5, 6



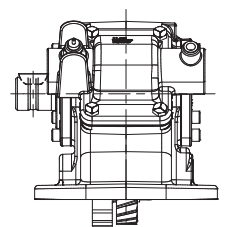
Ass'y 3



Ass'y 4



Ass'y 5



Ass'y 6

¹ Includes mounting parts

²¹ Includes installation kit, console sold separately

⁵⁹ Same as XK except rotated 90°

Specifications Chart

Approximate Weight: 30 lbs. [13.6 kg]

	489*A	489*C	489*F	489*H	489*L	489*Q	489*R	489*S	489*U	489*W	489*X
Intermittent Torque Rating (lbs-ft) [Nm]	250 [339]	250 [339]	250 [339]	250 [339]	250 [339]	225 [305]	225 [305]	200 [271]	195 [264]	175 [237]	140 [190]
HP Rating for Duty											
At 500 RPM of Output Shaft (HP) [Kw]	24 [18]	24 [18]	24 [18]	24 [18]	24 [18]	21 [16]	21 [16]	19 [14]	19 [14]	17 [13]	13 [10]
At 1000 RPM of Output Shaft (HP) [Kw]	48 [36]	48 [36]	48 [36]	48 [36]	48 [36]	43 [32]	43 [32]	38 [28]	37 [28]	33 [25]	27 [20]